TA-FE600R

SERVICE MANUAL

AEP Model

SPECIFICATIONS

Amplifier section

DIN power output
75 W + 75 W (4 ohms at 1 kHz)
55 W + 55 W (8 ohms at 1 kHz)

Total harmonic distortion
Less than 0.008% (at 10 W output)

Frequency response
PHONO (20 Hz - 20 kHz): RIAA equalization curve ±0.5 dB
TUNER, CD AUX, TAPE1/DAT, TAPE2/MD:
7 Hz - 100 kHz $^{+0}_{-3}$dB

S/N (network A)
PHONO: 90 dB
TUNER, CD, AUX, TAPE1/DAT, TAPE2/MD: 105 dB

Output voltage / impedance
REC OUT: 150 mV, 1 kilohm
PHONES: 10 mW (at 8 ohms)

Speakers impedance
4 - 16 ohms, 8 - 16 ohms (SPEAKERS A+B)

Damping factor
100 (8 ohms, 1 kHz)

General

System
Power amplifier: Pure-complementary SEPP OCL power amplifier with all stages directly coupled
Preamplifier: Low-noise, equalizer amplifier

Power requirements
220 - 230 V AC, 50/60 Hz

Power consumption
180 W

Dimensions (approx.) (w/h/d)
430 × 135 × 365 mm incl. projecting parts and controls

Mass (approx.)
6.4 kg

Supplied accessories

Remote commander (remote) (1) RM-S316
Sony batteries SUM-3 (NS) (2)

Design and specifications are subject to change without notice.

MICROFILM

INTEGRATED STEREO AMPLIFIER

SONY®

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SAFETY-RELATED COMPONENT WARNING !!

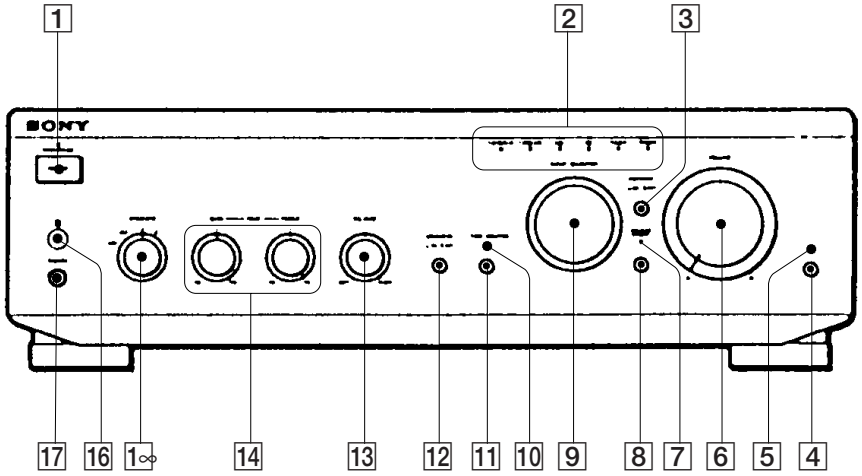
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

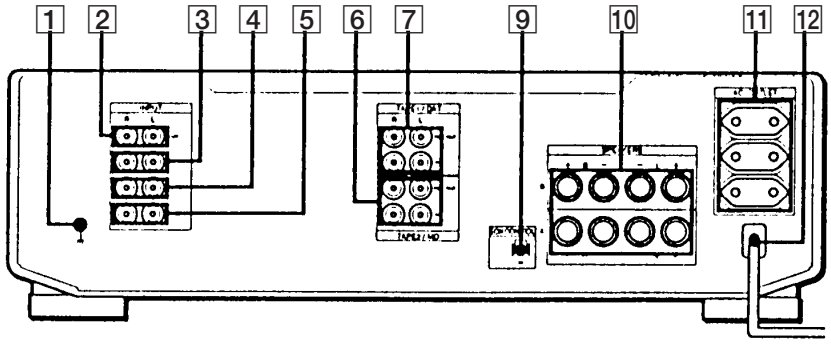
LOCATION OF PARTS AND CONTROLS

FRONT PANEL



1 POWER switch
2 INPUT SELECTOR indicator
3 SUBSONIC switch
4 EON LINK switch
5 EON LINK indicator
6 VOLUME control
7 SOURCE DIRECT indicator
8 SOURCE DIRECT switch
9 INPUT SELECTOR control
10 TAPE 1 MONITOR indicator
11 TAPE 1 MONITOR switch
12 LOUDNESS switch
13 BALANCE control
14 TONE (BASS, TREBLE) control
1∞ SPEAKERS selector
16 Remote control sensor
17 PHONES jack

REAR PANEL



1 ⏚ (earth)
2 AUX
3 CD
4 TUNER
5 PHONO
6 TAPE2/MD
7 TAPE1/DAT
9 EON CONTROL IN
10 SPEAKERS A/B
11 AC OUTLET
12 Mains lead

SECTION 2
ELECTRICAL ADJUSTMENT

Bias Adjustment

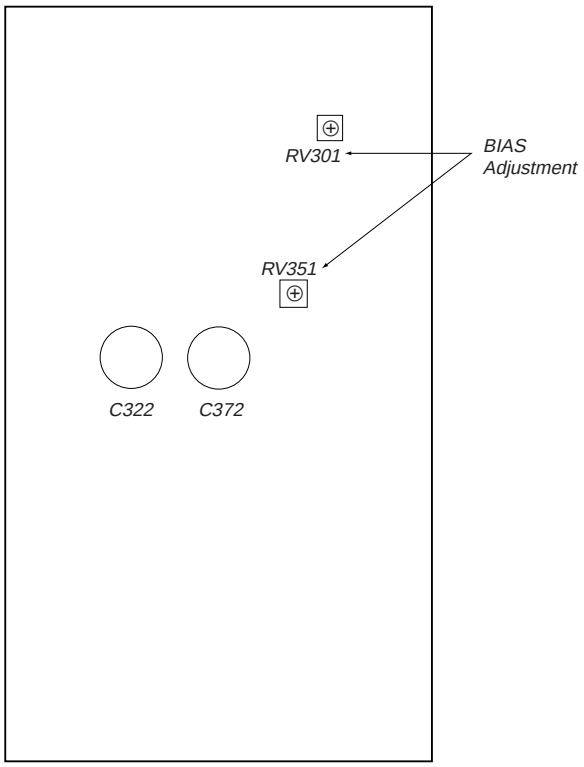
1. Rotate fully the bias adjusting semi-fixed resistors (RV301, RV351) to the MIN position (counterclockwise).
2. Connect a digital voltmeter to the CN406 and CN407.

	1 pin	3 pin
CN406	–	+
CN407	+	–

3. Set the slide regulator to 0V, and press the POWER button (ON) on the set.
4. Raise gradually the slide regulator voltage up to the rated voltage (230 V).
5. At this time, confirm that the SP relay is turned on (it will click).
6. Adjust the RV301 and RV351 so that a reading of digital voltmeter is 10 mV to 15 mV.
7. Return the slidack to 0 V, and press the POWER button (OFF) on the set.

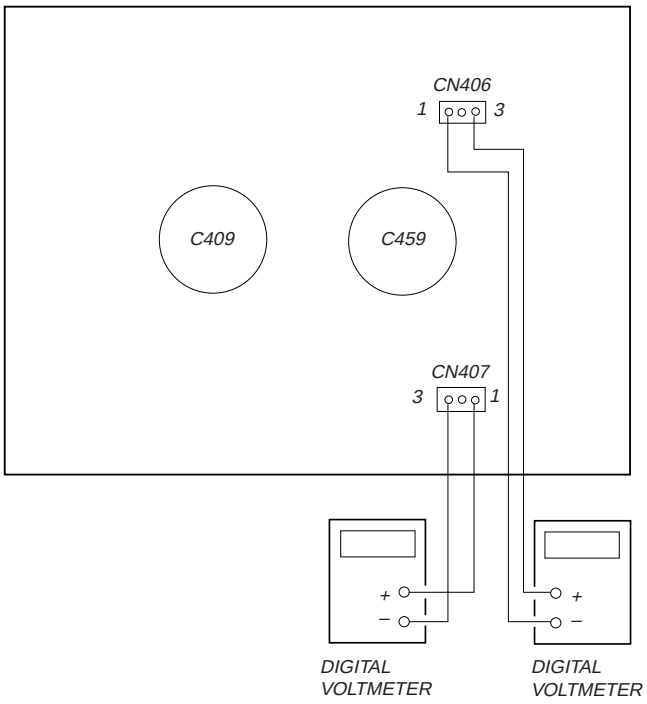
Adjustment Location :

[MAIN A BOARD] — COMPONENT SIDE —



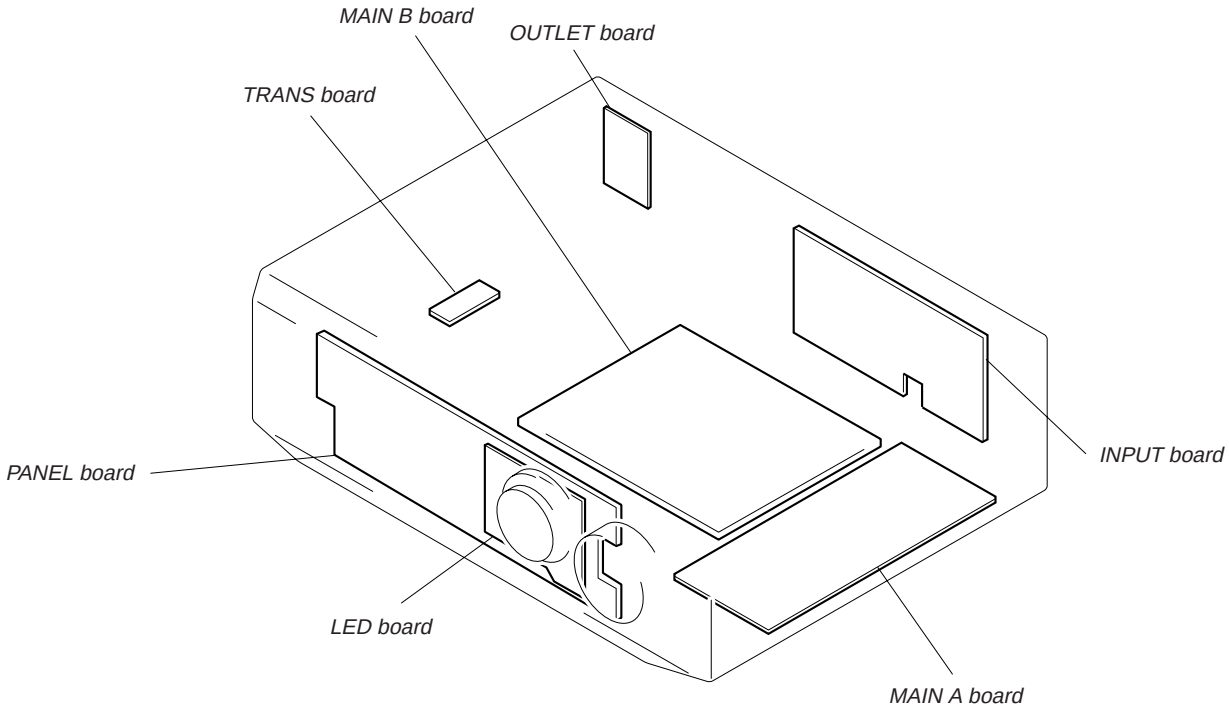
Test Point Location :

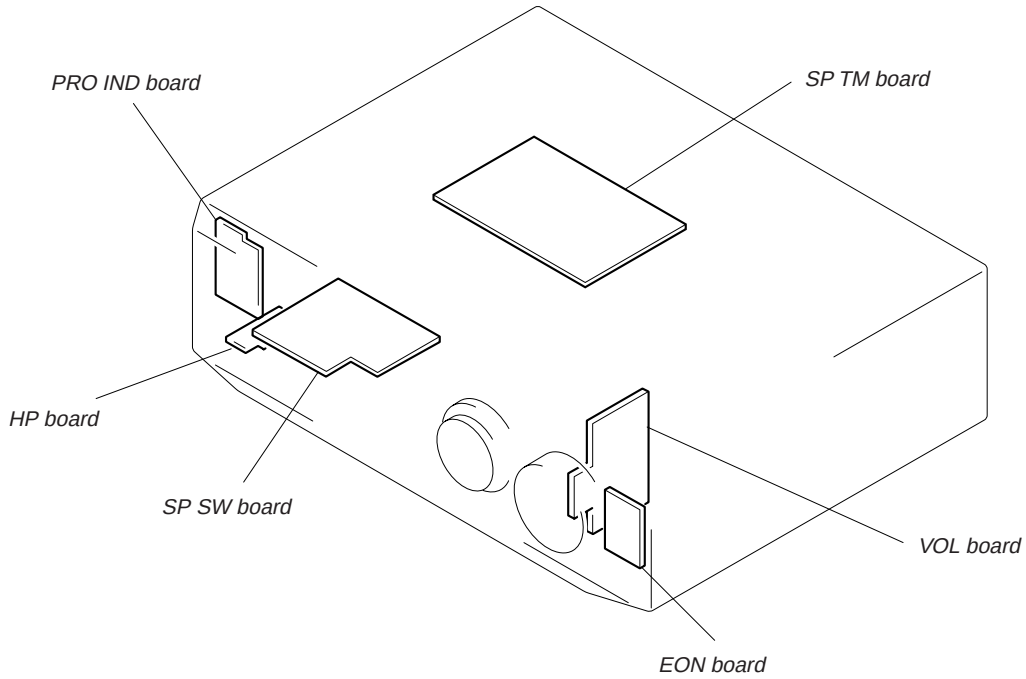
[MAIN B BOARD] — COMPONENT SIDE —



SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION





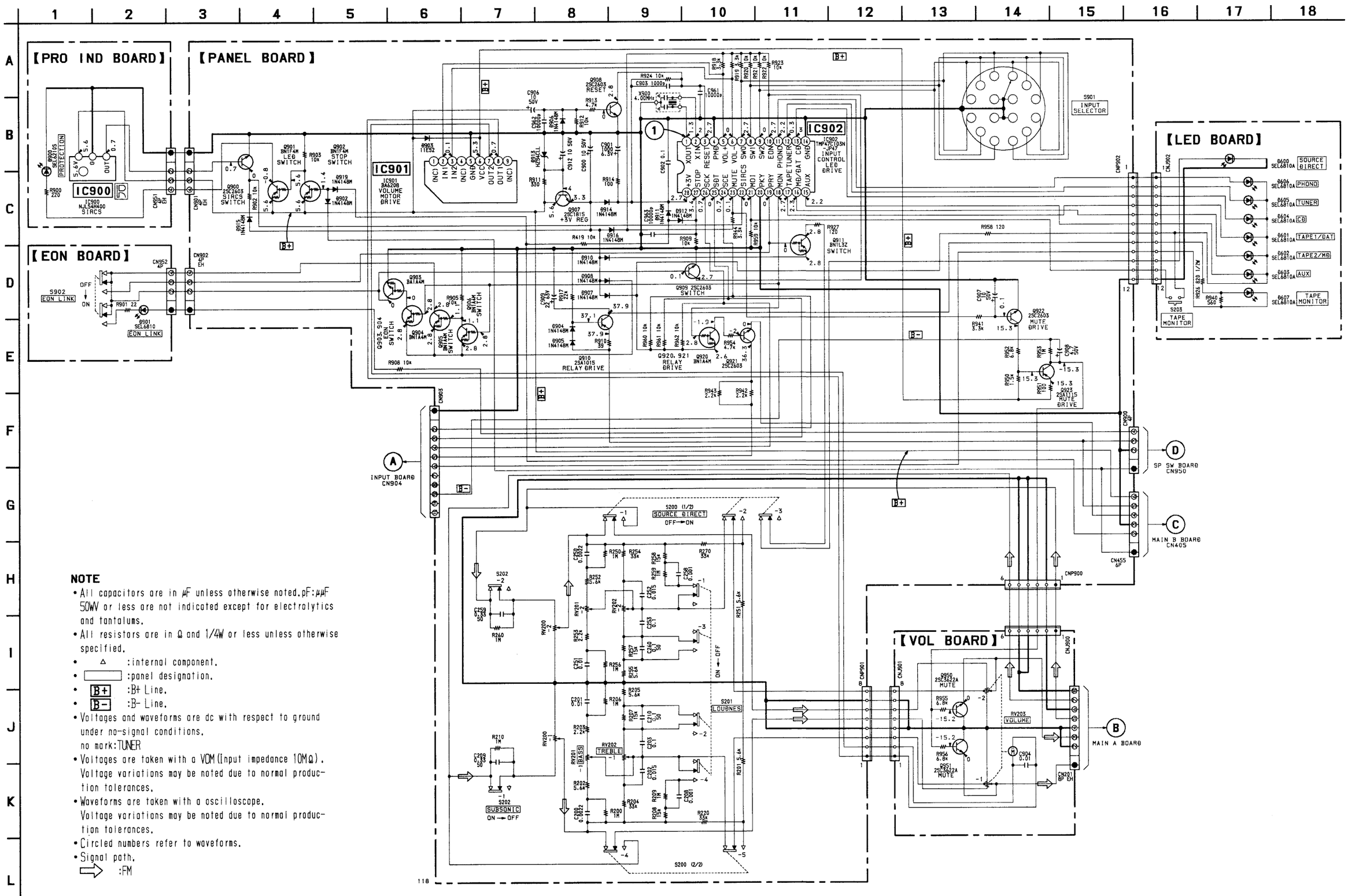
3-2. IC PIN FUNCTION

• IC902 Input Control LED Drive (TMP47C103N-JP47)

Pin No.	Pin Name	I/O	Function
1	X OUT	O	System clock. (4MHz)
2	X IN	I	
3	RESET	I	Reset input.
4	PMD	I	Mode select input.
5	VOL +	O	Motor drive output (+).
6	VOL –	O	Motor drive output (–).
7	SW 0	I	Rotary switch input (CD).
8	SW 1	I	Rotary switch input (TUNER).
9	SW 2	I	Rotary switch input (PHONO).
10	EON	I	EON signal input.
11	PHONO	O	PHONO LED drive output.
12	TUNER	O	TUNER LED drive output.
13	CD	O	CD LED drive output.
14	GND	—	Ground.
15	AUX	O	AUX LED drive output.
16	DAT	O	TAPE “2” LED drive output.
17	TAPE	O	TAPE “1” LED drive output.
18	MON	O	MONITOR output.
19	PRY	O	Power relay output.
20	PKY	I	Power key input.
21	MON	I	MONITOR input.
22	SIRCS	I	SIRCS input.
23	MUTE	O	Muting output.
24	SCE	O	Chip enble output.
25	SDT	O	Serial data output.
26	SCK	O	Serial clock output.
27	STOP	I	STOP input.
28	+3V	—	+3V Power supply.

3-3. SCHEMATIC DIAGRAM — PANEL SECTION —

• See page 6 for IC Pin Function. (IC902)

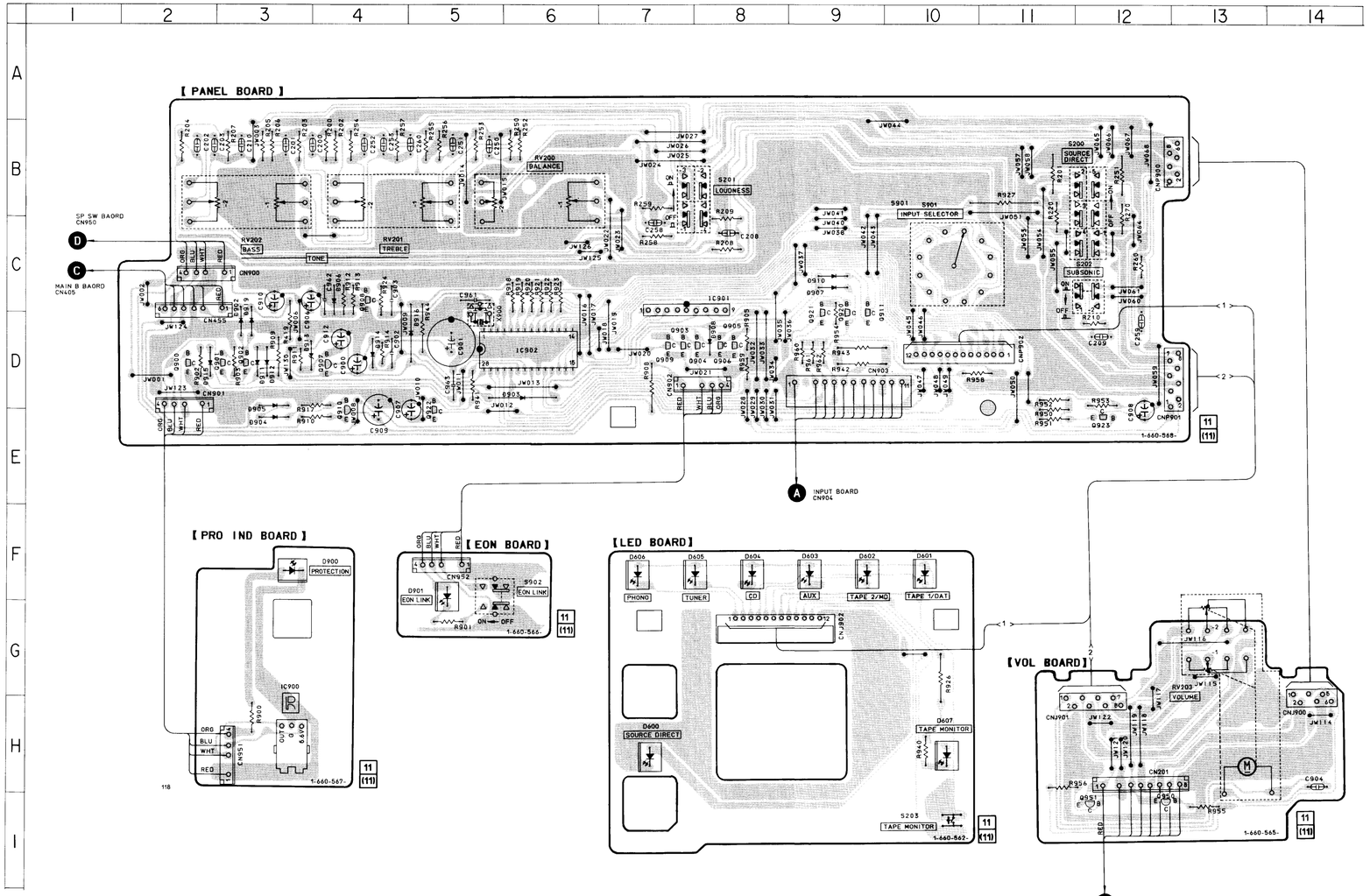


NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ▭ :panel designation.
- B+ :B+ Line.
- B- :B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: TUNER
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ :FM

3-4. PRINTED WIRING BOARD — PANEL SECTION —

• See page 5 for Circuit Boards Location.

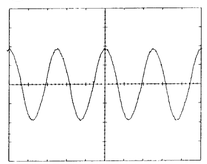


• Semiconductor Location

Ref. No.	Location
D600	H-7
D601	F-10
D602	F-9
D603	F-9
D604	F-8
D605	F-8
D606	F-7
D607	H-10
D900	F-3
D901	F-5
D902	D-3
D903	D-6
D904	E-3
D905	E-3
D906	C-4
D907	C-9
D908	D-8
D910	C-9
D911	D-3
D912	D-3
D913	D-3
D914	D-4
D915	D-2
D916	D-5
D919	D-3
IC900	H-3
IC901	D-7
IC902	D-6
Q900	D-2
Q901	D-2
Q902	D-3
Q903	D-7
Q904	D-8
Q905	D-8
Q906	D-8
Q907	D-4
Q908	C-4
Q909	D-7
Q910	E-4
Q911	D-9
Q920	D-9
Q921	D-9
Q922	E-5
Q923	E-12
Q950	I-12
Q951	I-12

• Waveform

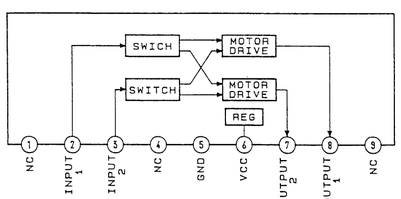
① IC902 ① pin



4MHz 1.92Vp-p

• IC Block Diagram

IC901 BA6208



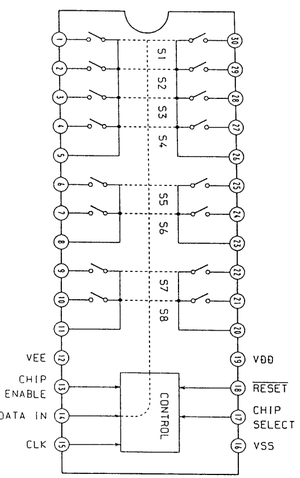
Note:

- ——o—— : parts extracted from the component side.
- △ : Internal component.
- ▒▒▒ : Pattern from the side which enable seeing.

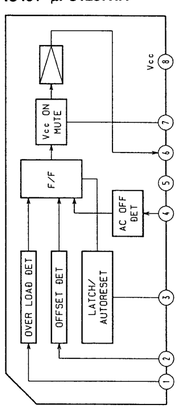
3-5. SCHEMATIC DIAGRAM — MAIN SECTION —

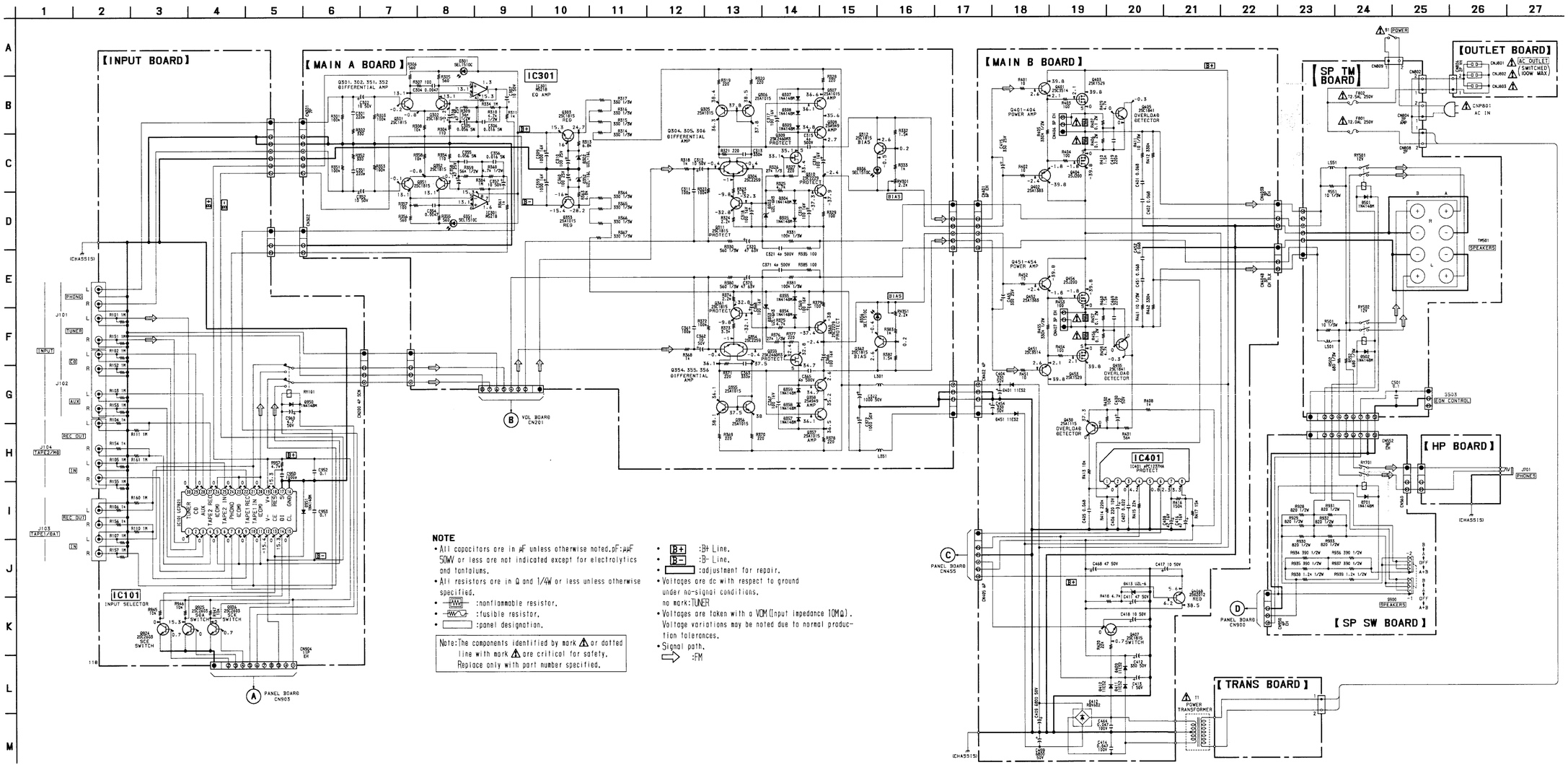
• IC Block Diagrams

IC101 LC7821



IC401 μPC1237HA





NOTE

- All capacitors are in μF unless otherwise noted. pF: μF. 50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

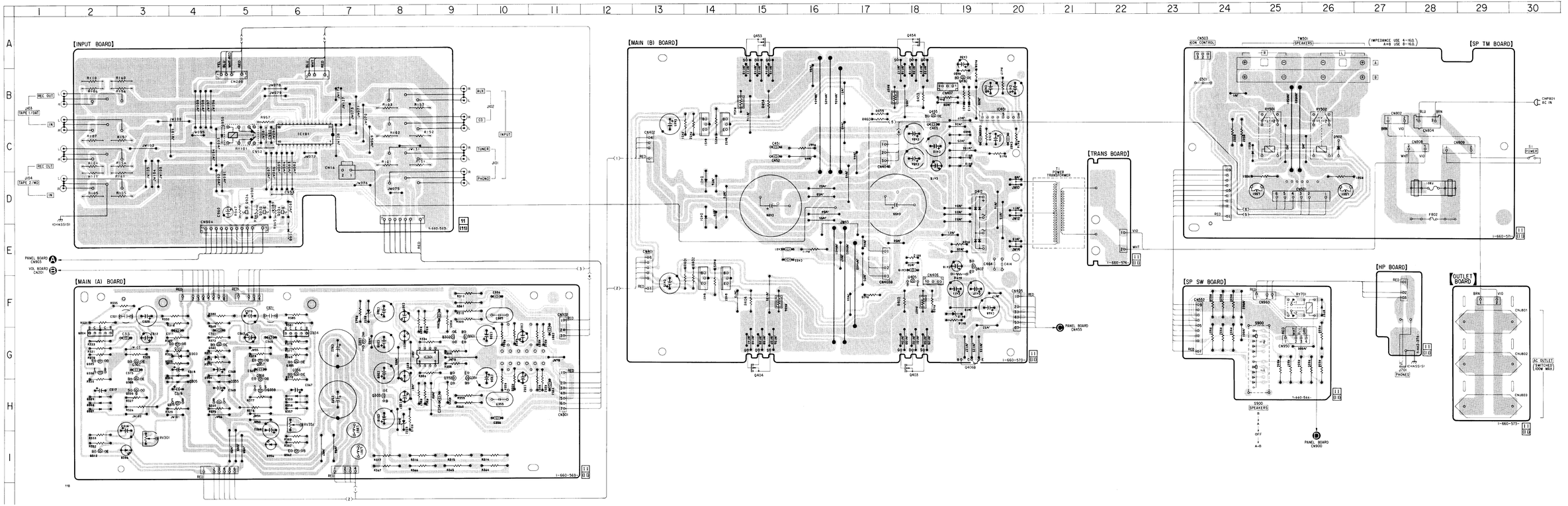
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- B+ : B+ Line.
- B- : B- Line.
- : adjustment for repair.
- Voltages are dc with respect to ground under no-signal conditions. no mark: TUNER
- Voltages are taken with a VOM (input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path. : FM

3-6. PRINTED WIRING BOARD — MAIN SECTION —

• See page 5 for Circuit Boards Location.

Note:
- ⟷: parts extracted from the component side.
- ▒▒: Pattern from the side which enable seeing.



• **Semiconductor Location**

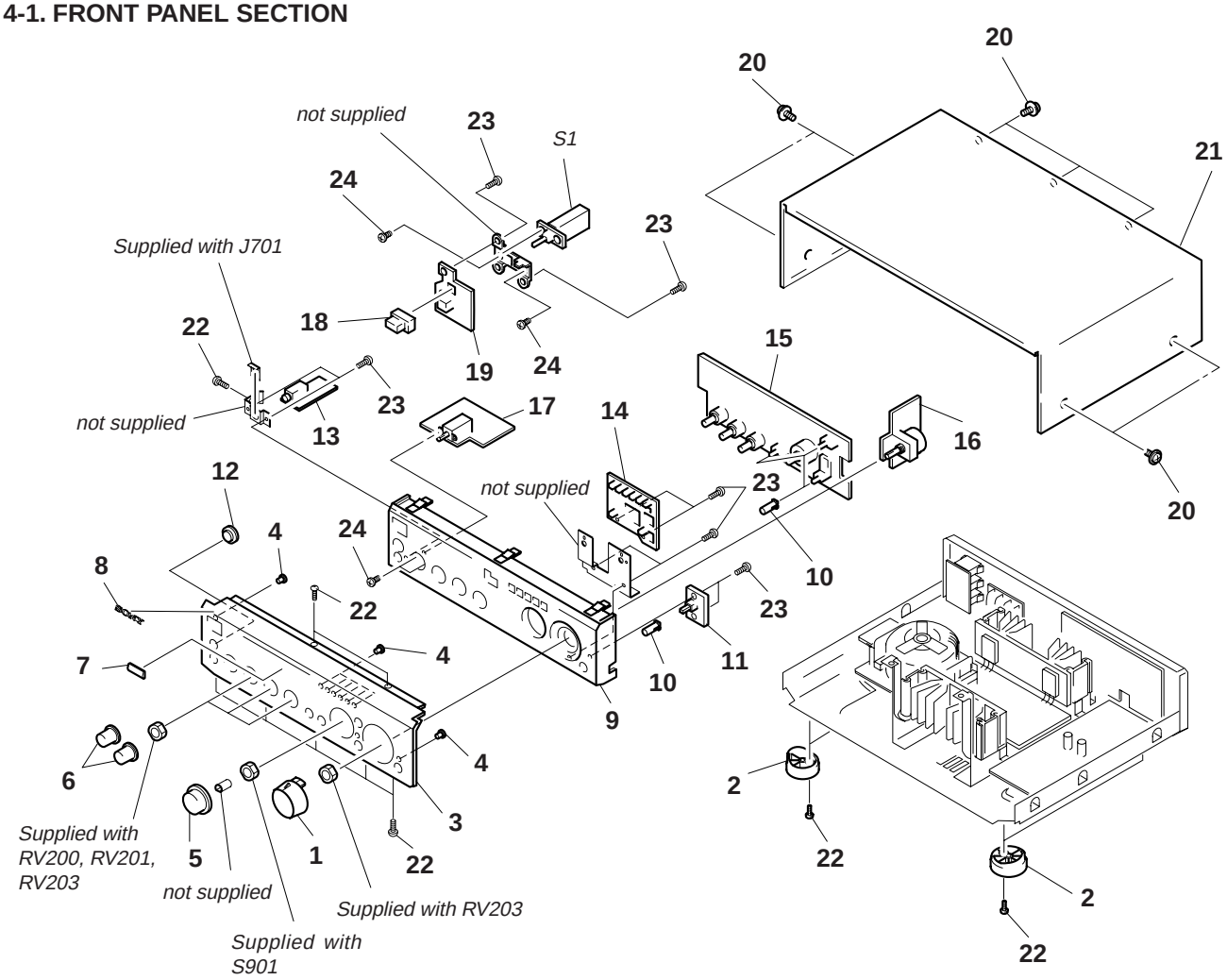
Ref. No.	Location
D301	G-8
D302	H-8
D303	G-4
D304	G-4
D305	H-4
D306	I-3
D307	H-2
D308	H-2
D309	H-2
D351	G-8
D352	F-7
D353	G-4
D354	G-4
D355	H-4
D356	I-5
D357	H-6
D358	H-6
D359	H-6
D401	D-14
D409	C-19
D410	C-19
D411	C-19
D412	D-19
D413	F-19
D451	D-14
D501	C-25
D502	C-26
D701	F-26
D950	C-5
D951	E-6
IC101	C-6
IC301	G-9
IC401	B-20
Q301	G-9
Q302	G-9
Q303	H-8
Q304	G-2
Q305	G-2
Q306	G-2
Q307	G-3
Q308	G-3
Q309	H-3
Q310	H-4
Q311	G-4
Q312	I-2
Q351	G-9
Q352	G-9
Q353	G-7
Q354	G-6
Q355	G-6
Q356	G-6
Q357	G-5
Q358	G-5
Q359	H-5
Q360	H-4
Q361	G-4
Q362	I-6
Q401	F-14
Q402	F-14
Q403	G-18
Q404	G-15
Q405	F-18
Q430	B-19
Q451	C-14
Q452	C-14
Q453	A-15
Q454	A-18
Q455	B-18
Q904	D-6
Q925	D-5
Q926	D-5
Q406B	G-19

SECTION 4
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  G : German model

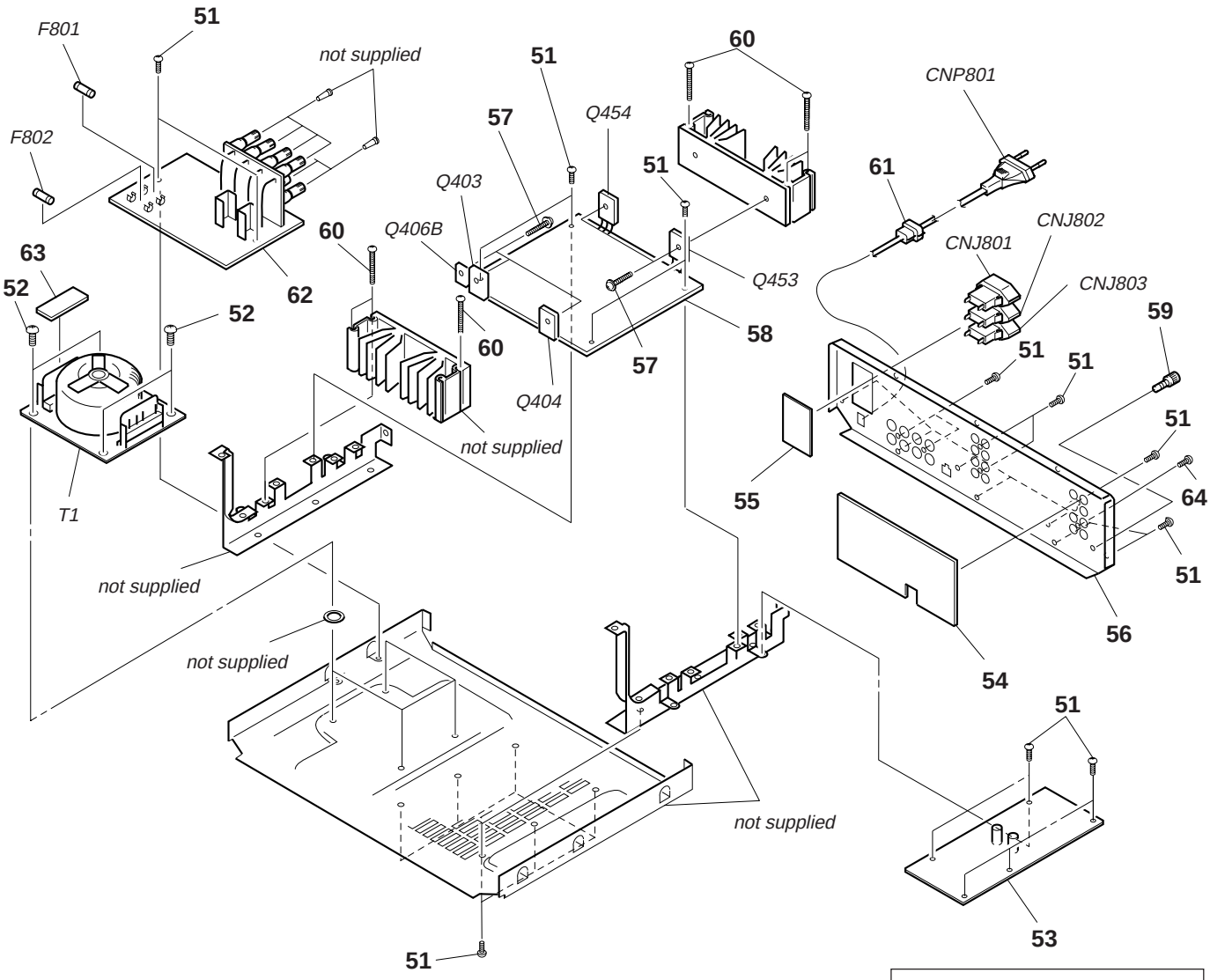
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-4946-920-1	KNOB (VOL) ASSY	
2	X-4947-025-1	FOOT ASSY	
3	4-980-766-21	PANEL, FRONT	
4	4-980-775-01	LENS, LED	
5	4-980-771-01	KNOB (DIA. 47) (SELECTOR)	
6	4-980-204-01	KNOB (DIA. 24) (TONE)	
7	4-965-651-01	EMBLEM (MOS)	
8	4-979-587-01	EMBLEM, SONY	
9	X-4946-923-1	PANEL ASSY, BASE	
10	4-980-773-01	BUTTON (DIA. 6) (EON)	
* 11	1-660-566-11	EON BOARD	
12	4-980-776-01	WINDOW, REMOTE CONTROL	
* 13	1-662-376-11	HP BOARD	
* 14	1-660-562-11	LED BOARD	
* 15	A-4389-795-A	PANEL BOARD, COMPLETE	
* 16	1-660-565-11	VOL BOARD	
* 17	1-660-564-11	SP SW BOARD	
18	4-980-199-01	BUTTON (POWER)	
* 19	1-660-567-11	PRO IND BOARD	
20	3-704-366-01	SCREW (CASE) (M3X8)	
21	4-979-945-41	CASE (412032)	
22	4-967-961-01	SCREW (3X8)	
23	4-951-620-01	SCREW (2.6X8), +BVTP	
24	7-682-548-04	SCREW +BVTT 3X8 (S)	
⚠ S1	1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)(POWER)	

4-2. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
51	4-967-961-01	SCREW (3X8)	
52	4-967-960-01	SCREW (4X8)	
* 53	A-4389-792-A	MAIN A BOARD, COMPLETE	
* 54	1-660-563-11	INPUT BOARD	
* 55	1-660-573-11	OUTLET BOARD	
* 56	4-980-768-21	PANEL, BACK	
57	3-905-609-11	SCREW (TRANSISTOR)	
* 58	A-4389-793-A	MAIN B BOARD, COMPLETE	
59	4-947-010-01	SCREW, FEEDER FIXED	
60	4-981-016-01	SCREW (H)	
* 61	3-703-244-00	BUSHING (2104), CORD	
* 62	1-660-571-11	SP TM BOARD	
* 63	1-660-574-11	TRANS BOARD	
64	3-704-515-41	SCREW (BV/RING)	

Ref. No.	Part No.	Description	Remark
⚠CNJ801	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)	
⚠CNJ802	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)	
⚠CNJ803	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)	
⚠CNP801	1-777-185-11	CORD, POWER	
⚠F801	1-532-388-51	FUSE, TIME LAG (2.0A 250V)	
⚠F802	1-532-464-51	FUSE, TIME LAG (2.5A 250V)	
Q403	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q404	8-729-232-46	TRANSISTOR 2SJ200-Y	
Q453	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q454	8-729-232-46	TRANSISTOR 2SJ200-Y	
Q406B	8-729-209-15	TRANSISTOR 2SD2012	
⚠T1	1-429-492-11	TRANSFORMER, POWER	

SECTION 5
ELECTRICAL PARTS LIST

EON | HP | INPUT

Note:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μ A..., uPA...: μ PA..., uPB...: μ PB..., uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  G : German model

Ref. No.	Part No.	Description			Remark
*	1-660-566-11	EON BOARD **********			
		< CONNECTOR >			
CN952	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
		< DIODE >			
D901	8-719-313-72	DIODE SEL3810A-CD (EON LINK)			
		< RESISTOR >			
R901	1-249-397-11	CARBON	22	5%	1/4W
		< SWITCH >			
S902	1-571-112-21	SWITCH, PUSH (1 KEY) (EON LINK)			
**********					
*	1-662-376-11	HP BOARD *********			
		< JACK >			
J701	1-750-735-11	JACK (LARGE TYPE) (PHONES)			
**********					
*	1-660-563-11	INPUT BOARD **********			
		< CAPACITOR >			
C950	1-162-294-31	CERAMIC	0.001uF	10%	50V
C952	1-164-159-11	CERAMIC	0.1uF		50V
C953	1-164-159-11	CERAMIC	0.1uF		50V
C960	1-126-963-11	ELECT	4.7uF	20%	50V
		< CONNECTOR >			
CN16	1-564-320-00	PIN,CONNECTOR (B2P-VH)2P			
CN200	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
CN904	1-691-773-11	PLUG (MICRO CONNECTOR) 11P			
		< DIODE >			
D950	8-719-987-63	DIODE 1N4148M			
D951	8-719-987-63	DIODE 1N4148M			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC101	8-759-805-13	IC LC7821			
		< JACK >			
* J101	1-573-142-11	JACK, PIN 4P (INPUT TUNER,PHONO)			
* J102	1-573-142-21	JACK, PIN 4P (INPUT AUX,CD)			
* J103	1-573-142-21	JACK, PIN 4P (TAPE 1/DAT REC OUT,IN)			
* J104	1-573-142-21	JACK, PIN 4P (TAPE 2/MD REC OUT,IN)			
		< TRANSISTOR >			
Q924	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q925	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q926	8-729-620-05	TRANSISTOR 2SC2603-EF			
		< RESISTOR >			
R101	1-249-995-11	CARBON	1M	5%	1/4W
R102	1-249-995-11	CARBON	1M	5%	1/4W
R103	1-249-995-11	CARBON	1M	5%	1/4W
R104	1-247-713-11	CARBON	1K	5%	1/4W
R105	1-249-995-11	CARBON	1M	5%	1/4W
R106	1-247-713-11	CARBON	1K	5%	1/4W
R107	1-249-995-11	CARBON	1M	5%	1/4W
R110	1-249-995-11	CARBON	1M	5%	1/4W
R111	1-249-995-11	CARBON	1M	5%	1/4W
R151	1-249-995-11	CARBON	1M	5%	1/4W
R152	1-249-995-11	CARBON	1M	5%	1/4W
R153	1-249-995-11	CARBON	1M	5%	1/4W
R154	1-247-713-11	CARBON	1K	5%	1/4W
R155	1-249-995-11	CARBON	1M	5%	1/4W
R156	1-247-713-11	CARBON	1K	5%	1/4W
R157	1-249-995-11	CARBON	1M	5%	1/4W
R160	1-249-995-11	CARBON	1M	5%	1/4W
R161	1-249-995-11	CARBON	1M	5%	1/4W
R945	1-249-429-11	CARBON	10K	5%	1/4W
R946	1-249-429-11	CARBON	10K	5%	1/4W
R947	1-249-429-11	CARBON	10K	5%	1/4W
R957	1-249-425-11	CARBON	4.7K	5%	1/4W
		< RELAY >			
RY101	1-515-614-11	RELAY			
**********					

LED MAIN A

Ref. No.	Part No.	Description			Remark
*	1-660-562-11	LED BOARD			
		**********			
		< CONNECTOR >			
CNJ902	1-766-796-11	CONNECTOR, BOARD TO BOARD 12P			
		< DIODE >			
D600	8-719-313-72	DIODE SEL3810A-CD (SOURCE DIRECT)			
D601	8-719-313-72	DIODE SEL3810A-CD (TAPE 1/DAT)			
D602	8-719-313-72	DIODE SEL3810A-CD (TAPE 2/MD)			
D603	8-719-313-72	DIODE SEL3810A-CD (AUX)			
D604	8-719-313-72	DIODE SEL3810A-CD (CD)			
D605	8-719-313-72	DIODE SEL3810A-CD (TUNER)			
D606	8-719-313-72	DIODE SEL3810A-CD (PHONO)			
D607	8-719-313-72	DIODE SEL3810A-CD (TAPE 1 MONITOR)			
		< RESISTOR >			
R926	1-247-751-11	CARBON	820	5%	1/2W
R940	1-249-414-11	CARBON	560	5%	1/4W
		< SWITCH >			
S203	1-554-303-21	SWITCH, TACTILE (TAPE 1 MONITOR)			
**********					
*	A-4389-792-A	MAIN A BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C301	1-102-978-00	CERAMIC	220PF	5%	50V
C302	1-126-059-11	ELECT	10uF	20%	50V
C304	1-106-359-00	MYLAR	4700PF	5%	200V
C305	1-136-162-00	FILM	0.056uF	5%	50V
C306	1-137-471-11	FILM	0.016uF	5%	50V
C307	1-126-059-11	ELECT	10uF	20%	50V
C308	1-126-022-11	ELECT	47uF	20%	25V
C309	1-126-013-11	ELECT	1000uF	20%	16V
C310	1-126-023-11	ELECT	100uF	20%	25V
C311	1-102-973-00	CERAMIC	100PF	5%	50V
C312	1-126-059-11	ELECT	10uF	20%	50V
C313	1-164-079-11	CERAMIC	330PF	10%	50V
C315	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C316	1-126-023-11	ELECT	100uF	20%	16V
C317	1-126-023-11	ELECT	100uF	20%	16V
C318	1-126-023-11	ELECT	100uF	20%	16V
C319	1-126-023-11	ELECT	100uF	20%	16V
C320	1-110-392-11	ELECT	47uF	20%	63V
C321	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C322	1-126-056-11	ELECT	1000uF	20%	50V
C351	1-102-978-00	CERAMIC	220PF	5%	50V
C352	1-126-059-11	ELECT	10uF	20%	50V
C354	1-106-359-00	MYLAR	4700PF	5%	200V
C355	1-136-162-00	FILM	0.056uF	5%	50V
C356	1-137-471-11	FILM	0.016uF	5%	50V
C357	1-126-059-11	ELECT	10uF	20%	50V
C358	1-126-022-11	ELECT	47uF	20%	25V
C359	1-126-013-11	ELECT	1000uF	20%	16V
C360	1-126-023-11	ELECT	100uF	20%	25V
C361	1-102-973-00	CERAMIC	100PF	5%	50V
C362	1-126-059-11	ELECT	10uF	20%	50V
C363	1-164-079-11	CERAMIC	330PF	10%	50V
C365	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C366	1-126-023-11	ELECT	100uF	20%	16V
C367	1-126-023-11	ELECT	100uF	20%	16V
C368	1-126-023-11	ELECT	100uF	20%	16V
C369	1-126-023-11	ELECT	100uF	20%	16V
C370	1-110-392-11	ELECT	47uF	20%	63V
C371	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C372	1-126-056-11	ELECT	1000uF	20%	50V
		< CONNECTOR >			
CN301	1-691-769-11	PLUG (MICRO CONNECTOR) 7P			
CN302	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< DIODE >			
D301	8-719-310-60	DIODE SEL1510C-C			
D302	8-719-933-88	DIODE HZS16-2L			
D303	8-719-933-41	DIODE HZS6C3L			
D304	8-719-987-63	DIODE 1N4148M			
D305	8-719-987-63	DIODE 1N4148M			
D306	8-719-310-60	DIODE SEL1510C-C			
D307	8-719-987-63	DIODE 1N4148M			
D308	8-719-987-63	DIODE 1N4148M			
D309	8-719-987-63	DIODE 1N4148M			
D351	8-719-310-60	DIODE SEL1510C-C			
D352	8-719-933-88	DIODE HZS16-2L			
D353	8-719-933-41	DIODE HZS6C3L			
D354	8-719-987-63	DIODE 1N4148M			
D355	8-719-987-63	DIODE 1N4148M			
D356	8-719-310-60	DIODE SEL1510C-C			
D357	8-719-987-63	DIODE 1N4148M			
D358	8-719-987-63	DIODE 1N4148M			
D359	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC301	8-759-636-74	IC M5218AP-22			
		< COIL >			
L301	1-411-925-11	COIL, AIR-CORE			
L351	1-411-925-11	COIL, AIR-CORE			
		< TRANSISTOR >			
Q301	8-729-281-54	TRANSISTOR 2SC1815-BL			

Ref. No.	Part No.	Description			Remark
Q302	8-729-281-54	TRANSISTOR	2SC1815-BL		
Q303	8-729-281-54	TRANSISTOR	2SC1815-BL		
Q304	8-729-620-17	TRANSISTOR	2SC2259-FG		
Q305	8-729-201-53	TRANSISTOR	2SA1015-GR		
Q306	8-729-201-53	TRANSISTOR	2SA1015-GR		
Q307	8-729-201-53	TRANSISTOR	2SA1015-GR		
Q308	8-729-021-74	TRANSISTOR	2SA949-OY-TPE6		
Q309	8-729-202-67	TRANSISTOR	2SK246-GR3		
Q310	8-729-021-73	TRANSISTOR	2SC2229-OY-TPE6		
Q311	8-729-281-54	TRANSISTOR	2SC1815-BL		
Q312	8-729-281-54	TRANSISTOR	2SC1815-BL		
Q351	8-729-281-54	TRANSISTOR	2SC1815-BL		
Q352	8-729-281-54	TRANSISTOR	2SC1815-BL		
Q353	8-729-201-53	TRANSISTOR	2SA1015-GR		
Q354	8-729-620-17	TRANSISTOR	2SC2259-FG		
Q355	8-729-201-53	TRANSISTOR	2SA1015-GR		
Q356	8-729-201-53	TRANSISTOR	2SA1015-GR		
Q357	8-729-201-53	TRANSISTOR	2SA1015-GR		
Q358	8-729-021-74	TRANSISTOR	2SA949-OY-TPE6		
Q359	8-729-202-67	TRANSISTOR	2SK246-GR3		
Q360	8-729-021-73	TRANSISTOR	2SC2229-OY-TPE6		
Q361	8-729-281-54	TRANSISTOR	2SC1815-BL		
Q362	8-729-281-54	TRANSISTOR	2SC1815-BL		
		< RESISTOR >			
R301	1-259-215-21	CARBON	100K	5%	1/4W
R302	1-249-911-11	CARBON	330	5%	1/4W
R303	1-259-215-21	CARBON	100K	5%	1/4W
R304	1-249-900-11	CARBON	110	1%	1/4W
R305	1-259-161-21	CARBON	560	5%	1/4W
R306	1-259-161-21	CARBON	560	5%	1/4W
R307	1-259-143-21	CARBON	100	5%	1/4W
R308	1-259-191-21	CARBON	10K	5%	1/4W
R309	1-249-844-11	CARBON	56K	1%	1/2W
R310	1-249-818-11	CARBON	4.7K	1%	1/2W
R311	1-259-167-21	CARBON	1K	5%	1/4W
R313	1-249-943-11	CARBON	6.8K	5%	1/4W
R314	1-249-198-11	CARBON	330	5%	1/3W
R315	1-249-198-11	CARBON	330	5%	1/3W
R316	1-249-198-11	CARBON	330	5%	1/3W
R317	1-249-198-11	CARBON	330	5%	1/3W
R318	1-259-167-21	CARBON	1K	5%	1/4W
R319	1-259-151-21	CARBON	220	5%	1/4W
R320	1-259-151-21	CARBON	220	5%	1/4W
R321	1-259-151-21	CARBON	220	5%	1/4W
R322	1-259-215-21	CARBON	100K	5%	1/4W
R323	1-259-179-21	CARBON	3.3K	5%	1/4W
R324	1-249-931-11	CARBON	2.2K	5%	1/4W
R325	1-259-444-11	CARBON	4.7K	5%	1/6W
R326	1-249-490-11	CARBON	27K	5%	1/3W
R327	1-259-151-21	CARBON	220	5%	1/4W
R328	1-259-151-21	CARBON	220	5%	1/4W

Ref. No.	Part No.	Description			Remark
R329	1-249-899-11	CARBON	100	5%	1/4W
R330	1-247-749-11	CARBON	560	5%	1/2W
R331	1-249-496-11	CARBON	100K	5%	1/3W
R332	1-259-171-21	CARBON	1.5K	5%	1/4W
R333	1-259-167-21	CARBON	1K	5%	1/4W
R334	1-124-995-11	CARBON	1M	5%	1/4W
R335	1-259-143-21	CARBON	100	5%	1/4W
R351	1-259-215-21	CARBON	100K	5%	1/4W
R352	1-249-911-11	CARBON	330	5%	1/4W
R353	1-259-215-21	CARBON	100K	5%	1/4W
R354	1-249-900-11	CARBON	110	1%	1/4W
R355	1-259-161-21	CARBON	560	5%	1/4W
R356	1-259-161-21	CARBON	560	5%	1/4W
R357	1-259-143-21	CARBON	100	5%	1/4W
R358	1-259-191-21	CARBON	10K	5%	1/4W
R359	1-249-844-11	CARBON	56K	1%	1/2W
R360	1-249-818-11	CARBON	4.7K	1%	1/2W
R361	1-259-167-21	CARBON	1K	5%	1/4W
R363	1-249-943-11	CARBON	6.8K	5%	1/4W
R364	1-249-198-11	CARBON	330	5%	1/3W
R365	1-249-198-11	CARBON	330	5%	1/3W
R366	1-249-198-11	CARBON	330	5%	1/3W
R367	1-249-198-11	CARBON	330	5%	1/3W
R368	1-259-167-21	CARBON	1K	5%	1/4W
R369	1-259-151-21	CARBON	220	5%	1/4W
R370	1-259-151-21	CARBON	220	5%	1/4W
R371	1-259-151-21	CARBON	220	5%	1/4W
R372	1-259-215-21	CARBON	100K	5%	1/4W
R373	1-259-179-21	CARBON	3.3K	5%	1/4W
R374	1-249-931-11	CARBON	2.2K	5%	1/4W
R375	1-259-444-11	CARBON	4.7K	5%	1/6W
R376	1-249-490-11	CARBON	27K	5%	1/3W
R377	1-259-151-21	CARBON	220	5%	1/4W
R378	1-259-151-21	CARBON	220	5%	1/4W
R379	1-249-899-11	CARBON	100	5%	1/4W
R380	1-247-749-11	CARBON	560	5%	1/2W
R381	1-249-496-11	CARBON	100K	5%	1/3W
R382	1-259-171-21	CARBON	1.5K	5%	1/4W
R383	1-259-167-21	CARBON	1K	5%	1/4W
R384	1-124-995-11	CARBON	1M	5%	1/4W
R385	1-259-143-21	CARBON	100	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-241-762-11	RES, ADJ, CARBON 2.2K			
RV351	1-241-762-11	RES, ADJ, CARBON 2.2K			

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MAIN B

Ref. No.	Part No.	Description			Remark
*	A-4389-793-A	MAIN B BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C401	1-136-163-00	FILM	0.068uF	5%	50V
C402	1-136-163-00	FILM	0.068uF	5%	50V
C404	1-124-920-11	ELECT	330uF	20%	50V
C405	1-136-163-00	FILM	0.068uF	5%	50V
C406	1-126-923-11	ELECT	220uF	20%	10V
C407	1-136-157-00	FILM	0.022uF	5%	50V
C408	1-126-967-11	ELECT	47uF	20%	16V
C409	1-115-426-11	ELECT	6800uF	20%	50
C411	1-126-967-11	ELECT	47uF	20%	50V
C412	1-126-970-11	ELECT	330uF	20%	50V
C413	1-124-903-11	ELECT	1uF	20%	50V
C414	1-137-420-11	FILM	0.047uF	10%	100V
C415	1-126-025-11	ELECT	330uF	20%	25V
C416	1-126-967-11	ELECT	47uF	20%	16V
C417	1-126-964-11	ELECT	10uF	20%	50V
C418	1-126-964-11	ELECT	10uF	20%	50V
C419	1-164-077-11	CERAMIC	220PF	10%	50V
C430	1-126-965-11	ELECT	22uF	20%	50V
C451	1-136-163-00	FILM	0.068uF	5%	50V
C452	1-136-163-00	FILM	0.068uF	5%	50V
C454	1-124-920-11	ELECT	330uF	20%	50V
C459	1-115-426-11	ELECT	6800uF	20%	50
C464	1-137-420-11	FILM	0.047uF	10%	100V
C465	1-126-025-11	ELECT	330uF	20%	25V
C468	1-126-967-11	ELECT	47uF	20%	50V
C469	1-164-077-11	CERAMIC	220PF	10%	50V
		< CONNECTOR >			
CN401	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
CN402	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
CN405	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
CN406	1-564-506-11	PLUG, CONNECTOR 3P			
CN407	1-564-506-11	PLUG, CONNECTOR 3P			
CN403B	1-691-765-21	PLUG (MICRO CONNECTOR) 3P			
CN404B	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< DIODE >			
D401	8-719-024-99	DIODE 11ES2-NTA2B			
D409	8-719-024-99	DIODE 11ES2-NTA2B			
D410	8-719-024-99	DIODE 11ES2-NTA2B			
D411	8-719-024-99	DIODE 11ES2-NTA2B			
D412	8-719-302-38	DIODE RBV-602-01			
D413	8-719-933-39	DIODE HZS6C1L			
D451	8-719-024-99	DIODE 11ES2-NTA2B			
		< IC >			
IC401	8-759-111-68	IC uPC1237HA			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q401	8-729-104-18	TRANSISTOR 2SC3514-Q			
Q402	8-729-104-91	TRANSISTOR 2SA1383			
Q403	8-729-232-45	TRANSISTOR 2SK1529-Y			
Q404	8-729-232-46	TRANSISTOR 2SJ200-Y			
Q405	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q406B	8-729-209-15	TRANSISTOR 2SD2012			
Q407	8-729-281-54	TRANSISTOR 2SC1815-BL			
Q430	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q451	8-729-104-18	TRANSISTOR 2SC3514-Q			
Q452	8-729-104-91	TRANSISTOR 2SA1383			
Q453	8-729-232-45	TRANSISTOR 2SK1529-Y			
Q454	8-729-232-46	TRANSISTOR 2SJ200-Y			
Q455	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
		< RESISTOR >			
R401	1-249-393-11	CARBON	10	5%	1/4W
R402	1-249-393-11	CARBON	10	5%	1/4W
R403	1-249-405-11	CARBON	100	5%	1/4W
R404	1-249-405-11	CARBON	100	5%	1/4W
R405	1-247-745-11	CARBON	330	5%	1/2W
⚠R406	1-208-601-11	WIREWOUND	0.1	10%	2W F
⚠R407	1-208-601-11	WIREWOUND	0.1	10%	2W F
R408	1-259-428-11	CARBON	1K	5%	1/6W
R409	1-259-444-11	CARBON	4.7K	5%	1/6W
R410	1-259-432-11	CARBON	1.5K	5%	1/6W
R411	1-249-162-11	CARBON	10	5%	1/3W
R412	1-259-488-11	CARBON	330K	5%	1/6W
R413	1-259-452-11	CARBON	10K	5%	1/6W
R414	1-259-484-11	CARBON	220K	5%	1/6W
R415	1-259-460-11	CARBON	22K	5%	1/6W
R416	1-259-480-11	CARBON	150K	5%	1/6W
R417	1-259-456-11	CARBON	15K	5%	1/6W
R418	1-259-444-11	CARBON	4.7K	5%	1/6W
R420	1-259-460-11	CARBON	22K	5%	1/6W
R430	1-259-452-11	CARBON	10K	5%	1/6W
R431	1-259-470-11	CARBON	56K	5%	1/6W
R451	1-249-393-11	CARBON	10	5%	1/4W
R452	1-249-393-11	CARBON	10	5%	1/4W
R453	1-249-405-11	CARBON	100	5%	1/4W
R454	1-249-405-11	CARBON	100	5%	1/4W
R455	1-247-745-11	CARBON	330	5%	1/2W
⚠R456	1-208-601-11	WIREWOUND	0.1	10%	2W F
⚠R457	1-208-601-11	WIREWOUND	0.1	10%	2W F
R459	1-259-444-11	CARBON	4.7K	5%	1/6W
R460	1-259-432-11	CARBON	1.5K	5%	1/6W
R461	1-249-162-11	CARBON	10	5%	1/3W
R462	1-259-488-11	CARBON	330K	5%	1/6W

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
*	1-660-573-11	OUTLET BOARD	
		**********	
		< CONNECTOR >	
⚠CNJ801	1-526-794-11	OUTLET,AC (AC OUTLET SWITCHED 100W MAX)	
⚠CNJ802	1-526-794-11	OUTLET,AC (AC OUTLET SWITCHED 100W MAX)	
⚠CNJ803	1-526-794-11	OUTLET,AC (AC OUTLET SWITCHED 100W MAX)	

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Ref. No.	Part No.	Description	Remark
*	A-4389-795-A	PANEL BOARD, COMPLETE	
		**********	
		< CAPACITOR >	
C200	1-130-475-00	MYLAR 0.0022uF 5% 50V	
C201	1-136-153-00	FILM 0.01uF 5% 50V	
C202	1-136-155-00	FILM 0.015uF 5% 50V	
C203	1-136-165-00	FILM 0.1uF 5% 50V	
C208	1-130-471-00	MYLAR 0.001uF 5% 50V	
C209	1-136-171-00	FILM 0.33uF 5% 50V	
C210	1-136-165-00	FILM 0.1uF 5% 50V	
C250	1-130-475-00	MYLAR 0.0022uF 5% 50V	
C251	1-136-153-00	FILM 0.01uF 5% 50V	
C252	1-136-155-00	FILM 0.015uF 5% 50V	
C253	1-136-165-00	FILM 0.1uF 5% 50V	
C258	1-130-471-00	MYLAR 0.001uF 5% 50V	
C259	1-136-171-00	FILM 0.33uF 5% 50V	
C260	1-136-165-00	FILM 0.1uF 5% 50V	
C900	1-126-964-11	ELECT 10uF 20% 50V	
C901	1-126-916-11	ELECT 1000uF 20% 6.3V	
C902	1-164-159-11	CERAMIC 0.1uF 50V	
C903	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C906	1-126-964-11	ELECT 10uF 20% 50V	
C907	1-126-964-11	ELECT 10uF 20% 50V	
C908	1-126-963-11	ELECT 4.7uF 20% 50V	
C909	1-128-551-11	ELECT 22uF 20% 63V	
C910	1-126-933-11	ELECT 100uF 20% 10V	
C912	1-126-964-11	ELECT 10uF 20% 50V	
C961	1-164-095-11	CERAMIC 0.01uF 10% 16V	
C962	1-164-095-11	CERAMIC 0.01uF 10% 16V	
C963	1-164-095-11	CERAMIC 0.01uF 10% 16V	
		< CONNECTOR >	
CN455	1-691-768-11	PLUG (MICRO CONNECTOR) 6P	
CN900	1-691-766-11	PLUG (MICRO CONNECTOR) 4P	
CN901	1-691-766-21	PLUG (MICRO CONNECTOR) 4P	
CN902	1-691-766-11	PLUG (MICRO CONNECTOR) 4P	
* CN903	1-564-527-11	PLUG, CONNECTOR	
* CNP900	1-568-318-21	PLUG, CONNECTOR 6P	
* CNP901	1-568-320-11	PLUG, CONNECTOR 8P	
CNP902	1-774-936-11	CONNECTOR, BOARD TO BOARD 12P	

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D902	8-719-987-63	DIODE 1N4148M	
D903	8-719-024-99	DIODE 11ES2-NTA2B	
D904	8-719-987-63	DIODE 1N4148M	
D905	8-719-987-63	DIODE 1N4148M	
D906	8-719-987-63	DIODE 1N4148M	
D907	8-719-987-63	DIODE 1N4148M	
D908	8-719-987-63	DIODE 1N4148M	
D910	8-719-987-63	DIODE 1N4148M	
D911	8-719-987-63	DIODE 1N4148M	
D912	8-719-987-63	DIODE 1N4148M	
D913	8-719-985-59	DIODE HZS4CLL-TA	
D914	8-719-987-63	DIODE 1N4148M	
D915	8-719-987-63	DIODE 1N4148M	
D916	8-719-987-63	DIODE 1N4148M	
D919	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC901	8-759-962-08	IC BA6208	
IC902	8-759-392-41	IC TMP47C103N-JP47	
		< TRANSISTOR >	
Q900	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q901	8-729-900-63	TRANSISTOR DTA124ES	
Q902	8-729-900-63	TRANSISTOR DTA124ES	
Q903	8-729-900-80	TRANSISTOR DTC114ES	
Q904	8-729-422-57	TRANSISTOR UN4111	
Q905	8-729-422-57	TRANSISTOR UN4111	
Q906	8-729-422-57	TRANSISTOR UN4111	
Q907	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q908	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q909	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q910	8-729-201-53	TRANSISTOR 2SA1015-GR	
Q911	8-729-142-36	TRANSISTOR BN1L3Z	
Q920	8-729-422-57	TRANSISTOR UN4111	
Q921	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q922	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q923	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< RESISTOR >	
R200	1-259-500-11	CARBON 1M 5% 1/6W	
R201	1-259-446-11	CARBON 5.6K 5% 1/6W	
R202	1-259-446-11	CARBON 5.6K 5% 1/6W	
R203	1-259-436-11	CARBON 2.2K 5% 1/6W	
R204	1-259-464-11	CARBON 33K 5% 1/6W	
R205	1-259-446-11	CARBON 5.6K 5% 1/6W	
R206	1-259-500-11	CARBON 1M 5% 1/6W	
R207	1-259-456-11	CARBON 15K 5% 1/6W	
R208	1-259-456-11	CARBON 15K 5% 1/6W	
R209	1-259-500-11	CARBON 1M 5% 1/6W	
R210	1-259-500-11	CARBON 1M 5% 1/6W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

PANEL **PRO IND** **SP SW**

Ref. No.	Part No.	Description			Remark
R220	1-259-464-11	CARBON	33K	5%	1/6W
R250	1-259-500-11	CARBON	1M	5%	1/6W
R251	1-259-446-11	CARBON	5.6K	5%	1/6W
R252	1-259-446-11	CARBON	5.6K	5%	1/6W
R253	1-259-436-11	CARBON	2.2K	5%	1/6W
R254	1-259-464-11	CARBON	33K	5%	1/6W
R255	1-259-446-11	CARBON	5.6K	5%	1/6W
R256	1-259-500-11	CARBON	1M	5%	1/6W
R257	1-259-456-11	CARBON	15K	5%	1/6W
R258	1-259-456-11	CARBON	15K	5%	1/6W
R259	1-259-500-11	CARBON	1M	5%	1/6W
R260	1-259-500-11	CARBON	1M	5%	1/6W
R270	1-259-464-11	CARBON	33K	5%	1/6W
R419	1-249-429-11	CARBON	10K	5%	1/4W
R902	1-249-429-11	CARBON	10K	5%	1/4W
R903	1-249-429-11	CARBON	10K	5%	1/4W
R905	1-249-429-11	CARBON	10K	5%	1/4W
R908	1-249-429-11	CARBON	10K	5%	1/4W
R909	1-249-429-11	CARBON	10K	5%	1/4W
R910	1-249-400-11	CARBON	39	5%	1/4W
R911	1-249-411-11	CARBON	330	5%	1/4W
R912	1-249-429-11	CARBON	10K	5%	1/4W
R913	1-249-425-11	CARBON	4.7K	5%	1/4W
R914	1-247-807-31	CARBON	100	5%	1/4W
R917	1-249-433-11	CARBON	22K	5%	1/4W
R918	1-249-423-11	CARBON	3.3K	5%	1/4W
R919	1-249-423-11	CARBON	3.3K	5%	1/4W
R920	1-249-429-11	CARBON	10K	5%	1/4W
R921	1-249-429-11	CARBON	10K	5%	1/4W
R922	1-249-429-11	CARBON	10K	5%	1/4W
R923	1-249-429-11	CARBON	10K	5%	1/4W
R924	1-249-429-11	CARBON	10K	5%	1/4W
R927	1-249-406-11	CARBON	120	5%	1/4W
R941	1-249-423-11	CARBON	3.3K	5%	1/4W
R942	1-247-756-11	CARBON	2.2K	5%	1/2W
R943	1-247-756-11	CARBON	2.2K	5%	1/2W
R944	1-249-423-11	CARBON	3.3K	5%	1/4W
R950	1-249-419-11	CARBON	1.5K	5%	1/4W
R951	1-247-807-31	CARBON	100	5%	1/4W
R952	1-249-427-11	CARBON	6.8K	5%	1/4W
R953	1-247-903-00	CARBON	1M	5%	1/4W
R954	1-249-425-11	CARBON	4.7K	5%	1/4W
R958	1-249-406-11	CARBON	120	5%	1/4W
R959	1-249-429-11	CARBON	10K	5%	1/4W
R960	1-249-429-11	CARBON	10K	5%	1/4W
R961	1-249-429-11	CARBON	10K	5%	1/4W
R962	1-249-429-11	CARBON	10K	5%	1/4W
		< VARIABLE RESISTOR >			
RV200	1-223-933-21	RES, VAR, CARBON 250K/250K (BALANCE)			
RV201	1-223-934-21	RES, VAR, CARBON 250K/250K (TREBLE)			
RV202	1-223-935-21	RES, VAR, CARBON 900K/900K (BASS)			

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S200	1-571-828-11	SWITCH, PUSH(1 KEY) (SOURCE DIRECT)			
S201	1-762-387-11	SWITCH, PUSH (LOUDNESS)			
S202	1-571-112-21	SWITCH, PUSH (1 KEY) (SUBSONIC)			
S901	1-692-974-11	SWITCH, ROTARY (INPUT SELECTOR)			
		< VIBRATOR >			
X900	1-577-358-21	VIBRATOR, CERAMIC (4.00MHz)			
**********					
*	1-660-567-11	PRO IND BOARD			
		**********			
		< CONNECTOR >			
CN951	1-691-766-21	PLUG (MICRO CONNECTOR) 4P			
		< DIODE >			
D900	8-719-313-48	DIODE SEL6210S-TH12 (PROTECTION)			
		< IC >			
IC900	8-759-373-49	IC NJL54H400			
		< RESISTOR >			
R900	1-249-409-11	CARBON	220	5%	1/4W
**********					
*	1-660-564-11	SP SW BOARD			
		**********			
		< CONNECTOR >			
CN552	1-691-771-11	PLUG (MICRO CONNECTOR) 9P			
CN950	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
CN960	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< DIODE >			
D701	8-719-987-63	DIODE 1N4148M			
		< RESISTOR >			
R928	1-247-751-11	CARBON	820	5%	1/2W
R929	1-247-751-11	CARBON	820	5%	1/2W
R930	1-247-751-11	CARBON	820	5%	1/2W
R931	1-247-751-11	CARBON	820	5%	1/2W
R932	1-247-751-11	CARBON	820	5%	1/2W
R933	1-247-751-11	CARBON	820	5%	1/2W
R934	1-247-746-11	CARBON	390	5%	1/2W
R935	1-247-746-11	CARBON	390	5%	1/2W
R936	1-247-746-11	CARBON	390	5%	1/2W
R937	1-247-746-11	CARBON	390	5%	1/2W
R938	1-247-753-11	CARBON	1.2K	5%	1/2W

Ref. No.	Part No.	Description			Remark
R939	1-247-753-11	CARBON	1.2K	5%	1/2W
		< RELAY >			
RY701	1-515-614-11	RELAY			
		< SWITCH >			
S900	1-762-654-11	SWITCH, ROTARY SLIDE (SPEAKERS)			
**********					
*	1-660-571-11	SP TM BOARD **********			
	1-533-233-11	HOLDER, FUSE			
		< CAPACITOR >			
C501	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN503	1-566-212-11	PIN, CONNECTOR 3P			
CN802	1-564-321-00	PIN, CONNECTOR 2P			
CN804	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
* CN808	1-564-321-21	PIN, CONNECTOR 2P			
* CN809	1-565-792-11	PIN, CONNECTOR 2P			
		< DIODE >			
D501	8-719-987-63	DIODE 1N4148M			
D502	8-719-987-63	DIODE 1N4148M			
		< FUSE >			
⚠F801	1-532-388-51	FUSE,TIMELAG (2.0A 250V)			
⚠F802	1-532-464-51	FUSE,TIMELAG (2.5A 250V)			
		< COIL >			
L501	1-411-906-11	COIL, AIR-CORE			
L551	1-411-906-11	COIL, AIR-CORE			
		< RESISTOR >			
R501	1-249-162-11	CARBON	10	5%	1/3W
R502	1-247-750-11	CARBON	680	5%	1/2W
R551	1-249-162-11	CARBON	10	5%	1/3W
R552	1-247-750-11	CARBON	680	5%	1/2W
		< RELAY >			
RY501	1-515-921-11	RELAY (12V)			
RY502	1-515-921-11	RELAY (12V)			
		< TERMINAL >			
* TM501	1-537-519-11	TERMINAL BOARD (SP) (SPEAKERS)			
**********					

Ref. No.	Part No.	Description			Remark
*	1-660-574-11	TRANS BOARD **********			
		< TRANSFORMER >			
⚠T1	1-429-492-11	TRANSFORMER,POWER			
**********					
*	1-660-565-11	VOL BOARD **********			
		< CAPACITOR >			
C904	1-136-165-00	FILM	0.1uF	5%	50V
		< CONNECTOR >			
CN201	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
CNJ900	1-568-317-11	SOCKET, CONNECTOR 6P			
CNJ901	1-568-319-11	SOCKET, CONNECTOR 8P			
		< TRANSISTOR >			
Q950	8-729-141-26	TRANSISTOR 2SC3622A-LK			
Q951	8-729-141-26	TRANSISTOR 2SC3622A-LK			
		< RESISTOR >			
R955	1-249-427-11	CARBON	6.8K	5%	1/4W
R956	1-249-427-11	CARBON	6.8K	5%	1/4W
		< VARIABLE RESISTOR >			
RV203	1-225-227-11	RES, VAR, CARBON 120K/120K (VOLUME)			
**********					
		MISCELLANEOUS **********			
⚠CNJ801	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)			
⚠CNJ802	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)			
⚠CNJ803	1-526-794-11	OUTLET, AC (AC OUTLET SWITCHED 100W MAX)			
⚠CNP801	1-777-185-11	CORD, POWER			
⚠F801	1-532-388-51	FUSE, TIME LAG (2.0A 250V)			
⚠F802	1-532-464-51	FUSE, TIME LAG (2.5A 250V)			
Q403	8-729-232-45	TRANSISTOR 2SK1529-Y			
Q404	8-729-232-46	TRANSISTOR 2SJ200-Y			
Q453	8-729-232-45	TRANSISTOR 2SK1529-Y			
Q454	8-729-232-46	TRANSISTOR 2SJ200-Y			
Q406B	8-729-209-15	TRANSISTOR 2SD2012			
⚠S1	1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)(POWER)			
⚠T1	1-429-492-11	TRANSFORMER, POWER			
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-473-656-11	REMOTE COMMANDER (RM-S316)	
	3-856-216-11	MANUAL, INSTRUCTION (ENGLISH,FRENCE,SPANISH,PORTUGUESE) (AEP)	
	3-856-216-21	MANUAL, INSTRUCTION (GERMAN,DUTCH,SWEDISH,ITALIAN) (AEP)	
	3-856-216-31	MANUAL, INSTRUCTION (GERMAN) (G)	
*	4-981-575-01	CUSHION	
	4-981-643-01	COVER, BATTERY (For RM-S316)	
*	4-982-294-01	INDIVIDUAL CARTON	

9-960-695-11

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Home A&V Products Company

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